

02/18/2004 11:32 FAX

NP Photonics, Inc.

→ ERIC GIFFORD

002

Docket No. NP-0074

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Shibin JIANG et al.

Serial No.: Not assigned

Filing Date: February 19, 2004

For: SINGLE-FREQUENCY NARROW
LINEWIDTH 2μM FIBER LASER

Examiner: Unknown

Group Art Unit: Unknown

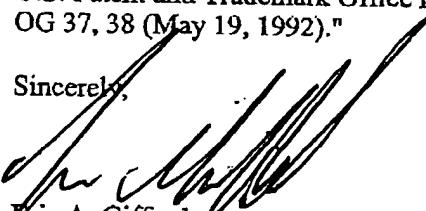
INFORMATION DISCLOSURE STATEMENT COVER LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, that information cited in the statement is considered to be and/or is material to patentability, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120, 1138 OG 37, 38 (May 19, 1992)."

Sincerely,


Eric A. Gifford
Registration No. 33,501

NP Photonics, Inc.
9030 S. Rita Road, Suite 120
Tucson, AZ 85747
Phone: (520) 799-7400
Fax: (520) 799-7403

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	
(use as many sheets as necessary)		Filing Date	February 19, 2004
		First Named Inventor	Shibin JIANG
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet	1	of	3
		Attorney Docket Number	NP-0074

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
1.	4,964,131			LIU et al.	10/16/1990	
2.	4,578,793			KANE et al.	03/25/1986	
3.	6,603,779	B2		PEDERSEN et al.	08/05/2003	
4.	6,570,893	B1		LIBATIQUE et al.	05/27/2003	
5.	6,567,432	B1		KIM et al.	05/20/2003	
6.	6,510,167	B1		JAIN et al.	01/21/2003	
7.	6,476,960	B1		TRAYNOR et al.	11/05/2002	
8.	6,463,083	B1		SUMIYOSHI et al.	10/08/2002	
9.	6,320,885	B1		KAWAI et al.	11/20/2001	
10.	6,041,069			KASHYAP et al.	03/21/2000	
11.	6,031,850			CHEO	02/29/2000	
12.	6,018,534			PAN et al.	01/25/2000	
13.	6,002,704			FREITAG et al.	12/14/1999	
14.	5,991,314			IONOV et al.	11/23/1999	
15.	5,905,745			GRUBB et al.	05/18/1999	
16.	5,892,781			PAN et al.	04/06/1999	
17.	5,843,073			SINOFSKY	12/01/1998	
18.	5,617,244			PERCIVAL et al.	04/01/1997	
19.	5,594,747			BALL	01/14/1997	
20.	5,511,083			D'AMATO et al.	04/23/1996	

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered
-----------------------	--	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>				<p>Complete if Known</p>	
Sheet	2	of	3	Application Number	
				Filing Date	February 19, 2004
				First Named Inventor	Shibin JIANG
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	NP-0074

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered
-----------------------	--	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	3	of	3	Attorney Docket Number	NP-0074

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	28.	C. GHISLER et al., Tuning of a Tm3+:Ho3+:Silica Fiber Laser at 2 um, IEEE Journal fo Quantum Electronics, Vol. 31, No. 11, November 1995, Pgs. 1877-1879.		
	29.	J.Y. ALLAIN et al., Tunable CW Lasing Around 0-82, 1-48, 1-88 and 2.35 um In Thulium-Doped Fluorozirconate Fibre, Electronics Letters, November 23, 1989, Vol. 25, No. 24, Pgs. 1660-1662.		
	30.	W.A. CLARKSON et al., High-power cladding-pumped Tm-doped silica fiber laser with a wavelength tuning from 1860 to 2090 nm, Optics Letters, November 15, 2002, Vol. 27, No. 22, Pgs. 1989-1991.		
	31.	Struart D. JACKSON et al., High-power diode-cladding-pumped Tm-doped silica fiber laser, Optics Letters, September 15, 1998, Vol. 23, No. 18, Pgs. 1462-1464.		
	32.	Ashraf F. EL-SHERIF et al., High-peak-power operation of a Q-switched Tm3+-doped silica fiber laser operating near 2um, Optics Letters, January 1, 2003, Vol. 28, No. 1, Pgs. 22-24.		
	33.	R.A. HAYWARD et al., Efficient cladding-pumped Tm-doped silica fibre laser with high power singlemode output at 2um, Electronics Letters, April 13, 2000, Vol. 36, No. 8, Pgs. 711-712.		
	34.	Stuart D. JACKSON et al., Dynamics of the output of heavily Tm-doped double-clad silica fiber lasers, J. Opt. Soc. Am., December 1999, Vol. 16, No. 12, Pgs. 2178-2188.		
	35.	Stuart D. JACKSON et al., CW Operation of a 1.064-um Pumped Tm-Ho-Doped Silica Fiber Laser, IEEE Journal of Quantum Electronics, September 1998, Vol. 34, No. 9, Pgs. 1578-1587.		
	36.	R.C. SHARP et al., 190-fs passively mode-locked thulium fiber laser with a low threshold, Optics Letters, June 15, 1996, Vol. 21, No. 12, Pgs. 881-883.		
	37.	Kyunghwan OH et al., Continuous-wave oscillation of thulium-sensitized holmium-doped silica fiber laser, Optics Letters, February 15, 1994, Vol. 19, No. 4, Pgs. 278-280.		
	38.	J.N. CARTER et al., CW Diode-Pumped Operation of 1-97 um Thulium-Doped Fluorozirconate Fibre Laser, Electronics Letters, April 26, 1990, Vol. 26, No. 9, Pgs. 599-601.		

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.